

C1  
~~Suit~~  
~~Concl~~  
a) contacting said sample with a probe, wherein said probe comprises nucleic acid corresponding to HIV-2 RNA;

b) washing the resulting hybrid; and

c) detecting said hybrid.

43. The method of claim 42, wherein said <sup>probe</sup>nucleic acid comprises cDNA.

44. The method of claim 42, wherein said nucleic acid comprises the following sequence:

20 GTGGAAGGCGAGACTGAAAGCAAGAGGAATACCATTTAGTTAAAGGACAG  
GAACAGCTATACTTGGTCAGGGCAGGAAGTAACTAACAGAAACAGCTGAG  
ACTGCAGGGACTTTCCAGAAGGGGCTGTAACCAAGGGAGGGACATGGGAG  
GAGCTGGTGGGGAACGCCTCATATTCTCTGTATAATATACCCGCTGCTTG  
CATTGTACTTCAGTEGCTCTGCCGAGAGGCTGGCAGATTGAGCCCTGGAG  
25 GATCTCTCCAGCACTAGACGGATGAGCCTGGGTGCCCTGCTAGACTCTCA  
CCAGCACTTGGCCGGTGCTGGCAGACGGCCCCACGCTTGCTGCTTAAAA  
ACCTTCCTTAATAAAGCTGCAGTAGAAGCA

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C2

45. The method of claim 42, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence: GAGGODN

5 MetGlyAlaArgAsnSerValLeuArgGlyLysLysAlaAspGlu  
LeuGluArgIleArgLeuArgProGlyGlyLysLysLysTyrArg  
10 LeuLysHisIleValTrpAlaAlaAsnLysLeuAspArgPheGly  
100 LeuAlaGluSerLeuLeuGluSerLysGluGlyCysGlnLysIle  
LeuThrValLeuAspProMetValProThrGlySerGluAsnLeu  
15 200 LysSerLeuPheAsnThrValCysValIleTrpCysIleHisAla  
GluGluLysValLysAspThrGluGlyAlaLysGlnIleValArg  
300 ArgHisLeuValAlaGluThrGlyThrAlaGluLysMetProSer  
20 ThrSerArgProThrAlaProSerSerGluLysGlyGlyAsnTyr  
400 ProValGlnHisValGlyGlyAsnTyrThrHisIleProLeuSer  
25 ProArgThrLeuAsnAlaTrpValLysLeuValGluGluLysLys  
PheGlyAlaGluValValProGlyPheGlnAlaLeuSerGluGly  
300 CysThrProTyrAspIleAsnGlnMetLeuAsnCysValGlyAsp  
30 HisGlnAlaAlaMetGlnIleIleArgGluIleIleAsnGluGlu  
600 AlaAlaGluTrpAspValGlnHisProIleProGlyProLeuPro  
35 AlaGlyGlnLeuArgGluProArgGlySerAspIleAlaGlyThr  
700 ThrSerThrValGluGluGlnIleGlnTrpMetPheArgProGln

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C2

B1

AsnProValProValGlyAsnIleTyrArgArgTrpIleGlnIle

800

GlyLeuGlnLysCysValArgMetTyrAsnProThrAsnIleLeu

AspIleLysGlnGlyProLysGluProPheGlnSerTyrValAsp

900

ArgPheTyrLysSerLeuArgAlaGluGlnThrAspProAlaVal

LysAsnTrpMetThrGlnThrLeuLeuValGlnAsnAlaAsnPro

AspCysLysLeuValLeuLysGlyLeuGlyMetAsnProThrLeu

1000

GluGluMetLeuThrAlaCysGlnGlyValGlyGlyProGlyGln

LysAlaArgLeuMetAlaGluAlaLeuLysGluValIleGlyPro

1100

AlaProIleProPheAlaAlaAlaGlnGlnArgLysAlaPheLys

CysTrpAsnCysGlyLysGluGlyHisSerAlaArgGlnCysArg

1200

AlaProArgArgGlnGlyCysTrpLysCysGlyLysProGlyHis

IleMetThrAsnCysProAspArgGlnAlaGlyPheLeuGlyLeu

1300

GlyProTrpGlyLysLysProArgAsnPheProValAlaGlnVal

ProGlnGlyLeuThrProThrAlaProProValAspProAlaVal

AspLeuLeuGluLysTyrMetGlnGlnGlyLysArgGlnArgGlu

1400

GlnArgGluArgProTyrLysGluValThrGluAspLeuLeuHis

LeuGluGlnGlyGluThrProTyrArgGluProProThrGluAsp

1500

LeuLeuHisLeuAsnSerLeuPheGlyLysAspGln

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46. The method of claim 42, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence:

B

5 ArgLysAlaPheLys  
CysTrpAsnCysGlyLysGluGlyHisSerAlaArgGlnCysArg  
1200  
AlaProArgArgGlnGlyCysTrpLysCysGlyLysProGlyHis  
10 IleMetThrAsnCysProAspArgGlnAlaGlyPheLeuGlyLeu  
1300  
GlyProTrpGlyLysLysProArgAsnPheProValAlaGlnVal  
15 ProGlnGlyLeuThrProThrAlaProProValAspProAlaVal  
AspLeuLeuGluLysTyrMetGlnGlnGlyLysArgGlnArgGlu  
1400  
GlnArgGluArgProTyrLysGluValThrGluAspLeuLeuHis  
20 LeuGluGlnGlyGluThrProTyrArgGluProProThrGluAsp  
1500  
LeuLeuHisLeuAsnSerLeuPheGlyLysAspGln

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47. The method of claim 42, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence:

B

Met Gly Ala Arg Asn Ser Val Leu Arg Gly Lys Lys Ala Asp Glu  
5  
Leu Glu Arg Ile Arg Leu Arg Pro Gly Gly Lys Lys Lys Tyr Arg  
Leu Lys His Ile Val Trp Ala Ala Asn Lys Leu Asp Arg Phe Gly  
100  
10 Leu Ala Glu Ser Leu Leu Glu Ser Lys Glu Gly Cys Gln Lys Ile  
Leu Thr Val Leu Asp Pro Met Val Pro Thr Gly Ser Glu Asn Leu  
200  
15 Lys Ser Leu Phe Asn Thr Val Cys Val Ile Trp Cys Ile His Ala  
Glu Glu Lys Val Lys Asp Thr Glu Gly Ala Lys Gln Ile Val Arg  
300  
20 Arg His Leu Val Ala Glu Thr Gly Thr Ala Glu Lys Met Pro Ser  
Thr Ser Arg Pro Thr Ala Pro Ser Ser Glu Lys Gly Gly Asn Tyr  
400

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48. The method of claim 42, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence:

ProValGlnHisValGlyGlyAsnTyrThrHisIleProLeuSer  
5 ProArgThrLeuAsnAlaTrpValLysLeuValGluGluLysLys  
PheGlyAlaGluValValProGlyPheGlnAlaLeuSerGluGly  
500  
10 CysThrProTyrAspIleAsnGlnMetLeuAsnCysValGlyAsp  
HisGlnAlaAlaMetGlnIleIleArgGlnIleIleAsnGluGlu  
600  
15 AlaAlaGluTrpAspValGlnHisProIleProGlyProLeuPro  
AlaGlyGlnLeuArgGluProArgGlySerAspIleAlaGlyThr  
700  
20 ThrSerThrValGluGluGlnIleGlnTrpMetPheArgProGln  
AsnProValProValGlyAsnIleTyrArgArgTrpIleGlnIle  
800  
GlyLeuGlnLysCysValArgMetTyrAsnProThrAsnIleLeu  
AspIleLysGlnGlyProLysGluProPheGlnSerTyrValAsp  
25 ArgPheTyrLysSerLeuArgAlaGluGlnThrAspProAlaVal  
900  
LysAsnTrpMetThrGlnThrLeuLeuValGlnAsnAlaAsnPro  
30 AspCysLysLeuValLeuLysGlyLeuGlyMetAsnProThrLeu  
1000  
GluGluMetLeuThrAlaCysGlnGlyValGlyGlyProGlyGln  
LysAlaArgLeuMetAlaGlnAlaLeuLysGluValIleGlyPro  
35 AlaProIleProPheAlaAlaAlaGlnGln  
1100

C2

49. The method of claim 42, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence: ENVR

5

MetMetAsnGlnLeuLeuIleAlaIleLeuLeuAlaSerAlaCys

LeuValTyrCysThrGlnTyrValThrValPheTyrGlyValPro

10

ThrTrpLysAsnAlaThrIleProLeuPheCysAlaThrArgAsn

100

ArgAspThrTrpGlyThrIleGlnCysLeuProAspAspAsp

TyrGlnGluIleThrLeuAsnValThrGluAlaPheAspAlaTrp

15

200

AsnAsnThrValThrGluGlnAlaIleGluAspValTrpHisLeu

PheGluThrSerIleLysProCysValLysLeuThrProLeuCys

20

300

ValAlaMetLysCysSerSerThrGluSerSerThrGlyAsnAsn

ThrThrSerLysSerThrSerThrThrThrThrThrProThrAsp

400

GlnGluGlnGluIleSerGluAspThrProCysAlaArgAlaAsp

25

AsnCysSerGlyLeuGlyGluGluGluThrIleAsnCysGlnPhe

AsnMetThrGlyLeuGluArgAspLysLysLysGlnTyrAsnGlu

500

30

ThrTrpTyrSerLysAspValValCysGluThrAsnAspSerThr

AsnGlnThrGlnCysTyrMetAsnHisCysAsnThrSerValIle

600

ThrGluSerCysAspLysHisTyrTrpAspAlaIleArgPheArg

35

TyrCysAlaProProGlyTyrAlaLeuLeuArgCysAsnAspThr

700

AsnTyrSerGlyPheAlaProAsnCysSerLysValValAlaSer

B

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C2  
 B  
 ThrCysThrArgMetMetGluThrGlnThrSerThrTrpPheGly  
 800  
 PheAsnGlyThrArgAlaGluAsnArgThrTyrIleTyrTrpHis  
 GlyArgAspAsnArgThrIleIleSerLeuAsnLysTyrTyrAsn  
 900  
 LeuSerLeuHisCysLysArgProGlyAsnLysThrValLysGln  
 IleMetLeuMetSerGlyHisValPheHisSerHisTyrGlnPro  
 IleAsnLysArgProArgGlnAlaTrpCysTrpPheLysGlyLys  
 1000  
 TrpLysAspAlaMetGlnGluValLysThrLeuAlaLysHisPro  
 ArgTyrArgGlyThrAsnAspThrArgAsnIleSerPheAlaAla  
 1100  
 ProGlyLysGlySerAspProGluValAlaTyrMetTrpThrAsn  
 CysArgGlyGluPheLeuTyrCysAsnMetThrTrpPheLeuAsn  
 1200  
 TrpIleGluAsnLysThrHisArgAsnTyrAlaProCysHisIle  
 LysGlnIleIleAsnThrTrpHisLysValGlyArgAsnValTyr  
 1300  
 LeuProProArgGluGlyGluLeuSerCysAsnSerThrValThr  
 SerIleIleAlaAsnIleAspTrpGlnAsnAsnAsnGlnThrAsn  
 IleThrPheSerAlaGluValAlaGluLeuTyrArgLeuGluLeu  
 1400  
 GlyAspTyrLysLeuValGluIleThrProIleGlyPheAlaPro

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ThrLysGluLysArgTyrSerSerAlaHisGlyArgHisThrArg

1500

GlyValPheValLeuGlyPheLeuGlyPheLeuAlaThrAlaGly

SerAlaMetGlyAlaArgAlaSerLeuThrValSerAlaGlnSer

1600

ArgThrLeuLeuAlaGlyIleValGlnGlnGlnGlnGlnLeuLeu

AspValValLysArgGlnGlnGluLeuLeuArgLeuThrValTrp

1700

GlyThrLysAsnLeuGlnAlaArgValThrAlaIleGluLysTyr

LeuGlnAspGlnAlaArgLeuAsnSerTrpGlyCysAlaPheArg

1800

GlnValCysHisThrThrValProTrpValAsnAspSerLeuAla

ProAspTrpAspAsnMetThrTrpGlnGluTrpGluLysGlnVal

ArgTyrLeuGluAlaAsnIleSerLysSerLeuGluGlnAlaGln

1900

IleGlnGlnGluLysAsnMetTyrGluLeuGlnLysLeuAsnSer

TrpAspIlePheGlyAsnTrpPheAspLeuThrSerTrpValLys

2000

TyrIleGlnTyrGlyValLeuIleIleValAlaValIleAlaLeu

ArgIleValIleTyrValValGlnMetLeuSerArgLeuArgLys

2100

GlyTyrArgProValPheSerSerProProGlyTyrIleGlnGln

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C2

B

IleEisIleEisLysAspArgGlyGlnProAlaAsnGluGluThr  
2200  
GluGluAspGlyGlySerAsnGlyGlyAspArgTyrTrpProTrp  
ProIleAlaTyrIleHisPheLeuIleArgGlnLeuIleArgLeu  
LeuThrArgLeuTyrSerIleCysArgAspLeuLeuSerArgSer  
2300  
PheLeuThrLeuGlnLeuIleTyrGlnAsnLeuArgAspTrpLeu  
ArgLeuArgThrAlaPheLeuGlnTyrGlyCysGluTrpIleGln  
2400  
GluAlaPheGlnAlaAlaAlaArgAlaThrArgGluThrLeuAla  
GlyAlaCysArgGlyLeuTrpArgValLeuGluArgIleGlyArg  
2500  
GlyIleLeuAlaValProArgArgIleArgGlnGlyAlaGluIle  
AlaLeuLeu\*\*\*GlyThrAlaValSerAlaGlyArgLeuTyrGlu  
2600  
TyrSerMetGluGlyProSerSerArgLysGlyGluLysPheVal  
GlnAlaThrLysTyrGly

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50. The method of any one of claims 42-49, wherein said nucleic acid comprises ~~recombinant~~ nucleic acid.

51. The method of claim 50, wherein said recombinant nucleic acid is labelled.

*Sub C3*  
52. A method of producing a hybridization probe for HIV-2 RNA, said method comprising:

- a) recombinantly synthesizing a cloning vector, wherein said vector comprises nucleic acid corresponding to HIV-2 RNA;
- b) cloning said vector in a competent cellular host;
- and
- c) recovering the DNA-recombinants.

*D* *B*  
53. The method of claim 52, wherein said ~~nucleic acid~~ <sup>probe</sup> comprises cDNA.

*Sub C4*  
54. The method of claim 52, wherein said nucleic acid comprises the following sequence:

GTGGAAGGCGAGACTGAAAGCAAGAGGAATACCATTTAGTTAAAGGACAG  
20 GAACAGCTATACTTGGTCAGGGCAGGAAGTAACTAACAGAAACAGCTGAG  
ACTGCAGGGACTTTCCAGAAGGGGCTGTAACCAAGGGAGGGACATGGGAG  
GAGCTGGTGGGGAACGCCCTCATATTCCTCTGTATAATATACCCGCTGCTTG  
CATTTGTACTTCAGTCGCTCTGCGGAGAGGCTGGCAGATTGAGCCCTGGAG  
GATCTCTCCAGCACTAGACGGATGAGCCTGGGTGCCCTGCTAGACTCTCA  
25 CCAGCACTTGGCCGGTGCTGGCAGACGGCCCCACGCTTGCTTAAAA  
ACCTTCCTTAATAAAGCTGCAGTAGAAGCA

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C4

55. The method of claim 52, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence: GAGRODN

B

5 MetGlyAlaArgAsnSerValLeuArgGlyLysLysAlaAspGlu  
LeuGluArgIleArgLeuArgProGlyGlyLysLysLysTyrArg  
10 LeuLysHisIleValTrpAlaAlaAsnLysLeuAspArgPheGly  
100  
LeuAlaGluSerLeuLeuGluSerLysGluGlyCysGlnLysIle  
LeuThrValLeuAspProMetValProThrGlySerGluAsnLeu  
15 200  
LysSerLeuPheAsnThrValCysValIleTrpCysIleHisAla  
GluGluLysValLysAspThrGluGlyAlaLysGlnIleValArg  
300  
20 ArgHisLeuValAlaGluThrGlyThrAlaGluLysMetProSer  
ThrSerArgProThrAlaProSerSerGluLysGlyGlyAsnTyr  
400  
25 ProValGlnHisValGlyGlyAsnTyrThrHisIleProLeuSer  
ProArgThrLeuAsnAlaTrpValLysLeuValGluGluLysLys  
PheGlyAlaGluValValProGlyPheGlnAlaLeuSerGluGly  
500  
30 CysThrProTyrAspIleAsnGlnMetLeuAsnCysValGlyAsp  
HisGlnAlaAlaMetGlnIleIleArgGluIleIleAsnGluGlu  
600  
35 AlaAlaGluTrpAspValGlnHisProIleProGlyProLeuPro  
AlaGlyGlnLeuArgGluProArgGlySerAspIleAlaGlyThr  
700  
ThrSerThrValGluGluGlnIleGlnTrpMetPheArgProGln

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AsnProValProValGlyAsnIleTyrArgArgTrpIleGlnIle  
 GlyLeuGlnLysCysValArgMetTyrAsnProThrAsnIleLeu  
 AspIleLysGlnGlyProLysGluProPheGlnSerTyrValAsp  
 ArgPheTyrLysSerLeuArgAlaGluGlnThrAspProAlaVal  
 LysAsnTrpMetThrGlnThrLeuLeuValGlnAsnAlaAsnPro  
 AspCysLysLeuValLeuLysGlyLeuGlyMetAsnProThrLeu  
 GluGluMetLeuThrAlaCysGlnGlyValGlyGlyProGlyGln  
 LysAlaArgLeuMetAlaGluAlaLeuLysGluValIleGlyPro  
 AlaProIleProPheAlaAlaAlaGlnGlnArgLysAlaPheLys  
 CysTrpAsnCysGlyLysGluGlyHisSerAlaArgGlnCysArg  
 AlaProArgArgGlnGlyCysTrpLysCysGlyLysProGlyHis  
 IleMetThrAsnCysProAspArgGlnAlaGlyPheLeuGlyLeu  
 GlyProTrpGlyLysLysProArgAsnPheProValAlaGlnVal  
 ProGlnGlyLeuThrProThrAlaProProValAspProAlaVal  
 AspLeuLeuGluLysTyrMetGlnGlnGlyLysArgGlnArgGlu  
 GlnArgGluArgProTyrLysGluValThrGluAspLeuLeuHis  
 LeuGluGlnGlyGluThrProTyrArgGluProProThrGluAsp  
 LeuLeuHisLeuAsnSerLeuPheGlyLysAspGln

800

900

1000

1100

1200

1300

1400

1500

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56. The method of claim 52, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence:

5 ArgLysAlaPheLys  
CysTrpAsnCysGlyLysGluGlyHisSerAlaArgGlnCysArg  
1200  
AlaProArgArgGlnGlyCysTrpLysCysGlyLysProGlyHis  
10 IleMetThrAsnCysProAspArgGlnAlaGlyPheLeuGlyLeu  
1300  
GlyProTrpGlyLysLysProArgAsnPheProValAlaGlnVal  
ProGlnGlyLeuThrProThrAlaProProValAspProAlaVal  
15 AspLeuLeuGluLysTyrMetGlnGlnGlyLysArgGlnArgGlu  
1400  
GlnArgGluArgProTyrLysGluValThrGluAspLeuLeuHis  
20 LeuGluGlnGlyGluThrProTyrArgGluProProThrGluAsp  
1500  
LeuLeuHisLeuAsnSerLeuPheGlyLysAspGln

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57. The method of claim 52, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence:

B

MetGlyAlaArgAsnSerValLeuArgGlyLysLysAlaAspGlu  
5  
LeuGluArgIleArgLeuArgProGlyGlyLysLysLysTyrArg  
LeuLysHisIleValTrpAlaAlaAsnLysLeuAspArgPheGly  
100  
10 LeuAlaGluSerLeuLeuGluSerLysGluGlyCysGlnLysIle  
LeuThrValLeuAspProMetValProThrGlySerGluAsnLeu  
200  
15 LysSerLeuPheAsnThrValCysValIleTrpCysIleHisAla  
GluGluLysValLysAspThrGluGlyAlaLysGlnIleValArg  
300  
ArgHisLeuValAlaGluThrGlyThrAlaGluLysMetProSer  
20 ThrSerArgProThrAlaProSerSerGluLysGlyGlyAsnTyr  
400

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C4

58. The method of claim 52, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence:

B

5 ProValGlnHisValGlyGlyAsnTyrThrHisIleProLeuSer  
ProArgThrLeuAsnAlaTrpValLysLeuValGluGluLysLys  
PheGlyAlaGluValValProGlyPheGlnAlaLeuSerGluGly  
500  
10 CysThrProTyrAspIleAsnGlnMetLeuAsnCysValGlyAsp  
HisGlnAlaAlaMetGlnIleIleArgGluIleIleAsnGluGlu  
600  
15 AlaAlaGluTrpAspValGlnHisProIleProGlyProLeuPro  
AlaGlyGlnLeuArgGluProArgGlySerAspIleAlaGlyThr  
700  
20 ThrSerThrValGluGlnGlnIleGlnTrpMetPheArgProGln  
AsnProValProValGlyAsnIleTyrArgArgTrpIleGlnIle  
800  
25 GlyLeuGlnLysCysValArgMetTyrAsnProThrAsnIleLeu  
AspIleLysGlnGlyProLysGluProPheGlnSerTyrValAsp  
900  
30 ArgPheTyrLysSerLeuArgAlaGluGlnThrAspProAlaVal  
LysAsnTrpMetThrGlnThrLeuLeuValGlnAsnAlaAsnPro  
1000  
35 AspCysLysLeuValLeuLysGlyLeuGlyMetAsnProThrLeu  
GluGluMetLeuThrAlaCysGlnGlyValGlyGlyProGlyGln  
1100  
AlaProIleProPheAlaAlaAlaGlnGln

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C4

59. The method of claim 52, wherein said nucleic acid comprises a nucleotide sequence coding for the following amino acid sequence: ENVER

B

5 MetMetAsnGlnLeuLeuIleAlaIleLeuLeuAlaSerAlaCys  
LeuValTyrCysThrGlnTyrValThrValPheTyrGlyValPro  
10 ThrTrpLysAsnAlaThrIleProLeuPheCysAlaThrArgAsn  
100 ArgAspThrTrpGlyThrIleGlnCysLeuProAspAsnAspAsp  
TyrGlnGluIleThrLeuAsnValThrGluAlaPheAspAlaTrp  
15 AsnAsnThrValThrGluGlnAlaIleGluAspValTrpHisLeu  
200 PheGluThrSerIleLysProCysValLysLeuThrProLeuCys  
300 ValAlaMetLysCysSerSerThrGluSerSerThrGlyAsnAsn  
20 ThrThrSerLysSerThrSerThrThrThrThrThrProThrAsp  
400 GlnGluGlnGluIleSerGluAspThrProCysAlaArgAlaAsp  
25 AsnCysSerGlyLeuGlyGluGluGluThrIleAsnCysGlnPhe  
AsnMetThrGlyLeuGluArgAspLysLysLysGlnTyrAsnGlu  
300 ThrTrpTyrSerLysAspValValCysGluThrAsnAsnSerThr  
30 AsnGlnThrGlnCysTyrMetAsnHisCysAsnThrSerValIle  
600 ThrGluSerCysAspLysHisTyrTrpAspAlaIleArgPheArg  
35 TyrCysAlaProProGlyTyrAlaLeuLeuArgCysAsnAspThr  
700 AsnTyrSerGlyPheAlaProAsnCysSerLysValValAlaSer

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ThrCysThrArgMetMetGluThrGlnThrSerThrTrpPheGly  
 PheAsnGlyThrArgAlaGluAsnArgThrTyrIleTyrTrpHis  
 GlyArgAspAsnArgThrIleIleSerLeuAsnLysTyrTyrAsn  
 LeuSerLeuHisCysLysArgProGlyAsnLysThrValLysGln  
 IleMetLeuMetSerGlyHisValPheHisSerHisTyrGlnPro  
 IleAsnLysArgProArgGlnAlaTrpCysTrpPheLysGlyLys  
 TrpLysAspAlaMetGlnGluValLysThrLeuAlaLysHisPro  
 ArgTyrArgGlyThrAsnAspThrArgAsnIleSerPheAlaAla  
 ProGlyLysGlySerAspProGluValAlaTyrMetTrpThrAsn  
 CysArgGlyGluPheLeuTyrCysAsnMetThrTrpPheLeuAsn  
 TrpIleGluAsnLysThrHisArgAsnTyrAlaProCysHisIle  
 LysGlnIleIleAsnThrTrpHisLysValGlyArgAsnValTyr  
 LeuProProArgGluGlyGluLeuSerCysAsnSerThrValThr  
 SerIleIleAlaAsnIleAspTrpGlnAsnAsnAsnGlnThrAsn  
 IleThrPheSerAlaGluValAlaGluLeuTyrArgLeuGluLeu  
 GlyAspTyrLysLeuValGluIleThrProIleGlyPheAlaPro

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et

B

ThrLysGluLysArgTyrSerSerAlaHisGlyArgHisThrArg

1500

GlyValPheValLeuGlyPheLeuGlyPheLeuAlaThrAlaGly

SerAlaMetGlyAlaArgAlaSerLeuThrValSerAlaGlnSer

1600

ArgThrLeuLeuAlaGlyIleValGlnGlnGlnGlnGlnLeuLeu

AspValValLysArgGlnGlnGluLeuLeuArgLeuThrValTrp

1700

GlyThrLysAsnLeuGlnAlaArgValThrAlaIleGluLysTyr

LeuGlnAspGlnAlaArgLeuAsnSerTrpGlyCysAlaPheArg

1800

GlnValCysHisThrThrValProTrpValAsnAspSerLeuAla

ProAspTrpAspAsnMetThrTrpGlnGluTrpGluLysGlnVal

ArgTyrLeuGluAlaAsnIleSerLysSerLeuGluGlnAlaGln

1900

IleGlnGlnGluLysAsnMetTyrGluLeuGlnLysLeuAsnSer

TrpAspIlePheGlyAsnTrpPheAspLeuThrSerTrpValLys

2000

TyrIleGlnTyrGlyValLeuIleIleValAlaValIleAlaLeu

ArgIleValIleTyrValValGlnMetLeuSerArgLeuArgLys

2100

GlyTyrArgProValPheSerSerProProGlyTyrIleGlnGln

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Cf  
 B  
 IleEisIleEisLysAspArgGlyGlnProAlaAsnGluGluThr  
 GluGluAspGlyGlySerAsnGlyGlyAspArgTyrTrpProTrp 2200  
 ProIleAlaTyrIleHisPheLeuIleArgGlnLeuIleArgLeu  
 LeuThrArgLeuTyrSerIleCysArgAspLeuLeuSerArgSer  
 2300  
 PheLeuThrLeuGlnLeuIleTyrGlnAsnLeuArgAspTrpLeu  
 ArgLeuArgThrAlaPheLeuGlnTyrGlyCysGluTrpIleGln  
 2400  
 GluAlaPheGlnAlaAlaAlaArgAlaThrArgGluThrLeuAla  
 GlyAlaCysArgGlyLeuTrpArgValLeuGluArgIleGlyArg  
 2500  
 GlyIleLeuAlaValProArgArgIleArgGlnGlyAlaGluIle  
 AlaLeuLeu\*\*\*GlyThrAlaValSerAlaGlyArgLeuTyrGlu  
 2600  
 TyrSerMetGluGlyProSerSerArgLysGlyGluLysPheVal  
 GlnAlaThrLysTyrGly

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